

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011683

Luminaire Tested: S123DIP-B560D1025UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011683
REPORT IS A COMBINATION OF REPORTS P989926 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB27-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

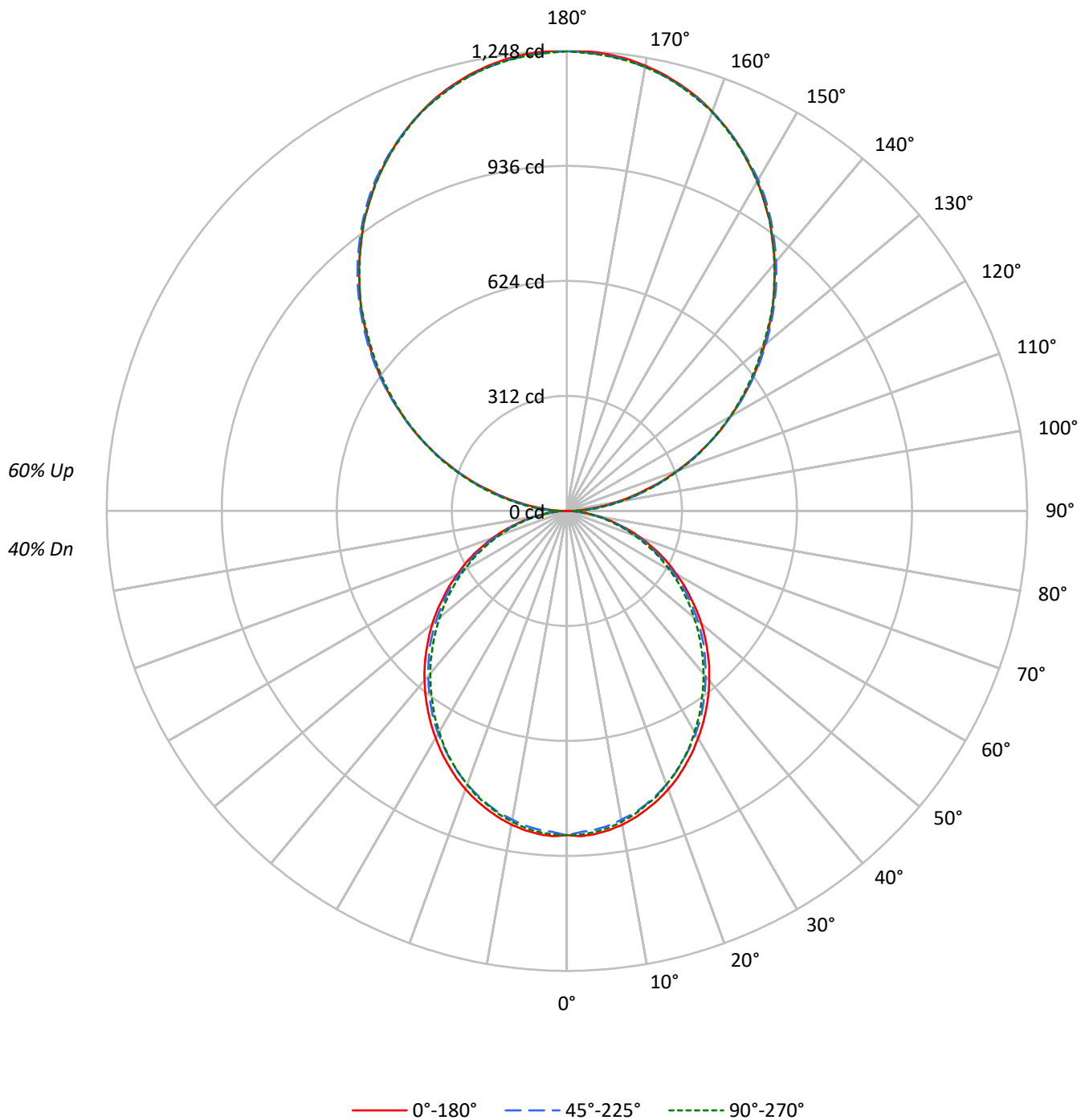
Lumens per Lamp: N/A
Luminaire Lumens: 5747.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	47	47	40
1	95	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	39	39	33
2	87	80	74	68	79	73	67	63	60	56	53	47	45	43	36	35	33	33	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	28	28	24
4	72	62	54	48	66	57	50	44	47	42	38	37	34	31	29	26	24	24	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	21	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	19	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	16	16	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	13	13	11
10	45	34	26	22	41	31	25	20	26	21	18	21	17	15	17	14	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9467	9467	9467
5°	9491	9141	9126
10°	9406	8831	8741
15°	9275	8509	8320
20°	9125	8152	7902
25°	8932	7775	7456
30°	8719	7385	6987
35°	8496	6987	6521
40°	8264	6568	6063
45°	8008	6161	5583
50°	7747	5706	5103
55°	7413	5233	4615
60°	7069	4712	4097
65°	6747	4146	3556
70°	6281	3520	2925
75°	5611	2788	2271
80°	4843	1960	1606
85°	3775	1053	805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8008 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.4
10°-20°	234.1	4.1
20°-30°	345.8	6.0
30°-40°	403.8	7.0
40°-50°	406.0	7.1
50°-60°	356.6	6.2
60°-70°	265.6	4.6
70°-80°	151.1	2.6
80°-90°	45.6	0.8
90°-100°	80.3	1.4
100°-110°	243.0	4.2
110°-120°	413.6	7.2
120°-130°	544.2	9.5
130°-140°	611.7	10.6
140°-150°	601.3	10.5
150°-160°	506.3	8.8
160°-170°	337.0	5.9
170°-180°	118.0	2.1
0°-30°	662.8	11.5
0°-40°	1066.7	18.6
0°-60°	1829.3	31.8
0°-90°	2291.7	39.9
90°-120°	736.9	12.8
90°-150°	2494.0	43.4
90°-180°	3455.0	60.1
0°-180°	5747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	880	876	868	876	874	83
15°	838	835	825	831	827	236
25°	761	756	746	747	745	350
35°	658	653	644	639	635	412
45°	539	536	526	517	514	416
55°	409	408	398	390	386	367
65°	279	275	268	262	259	275
75°	148	144	142	138	136	158
85°	39	38	38	36	36	42
90°	1	11	24	27	29	7
95°	58	65	72	76	76	64
105°	220	222	231	231	233	236
115°	416	419	417	418	417	412
125°	609	612	610	606	602	543
135°	791	796	796	792	790	609
145°	959	961	964	963	959	599
155°	1098	1098	1099	1103	1096	506
165°	1196	1193	1193	1199	1192	337
175°	1244	1240	1240	1246	1239	118
180°	1247	1247	1247	1247	1247	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.5	879.5	879.5	879.5	879.5
2.5°	883.3	880.3	872.0	879.5	878.8
5°	880.3	876.5	868.2	875.7	874.2
7.5°	873.5	869.7	861.4	868.2	867.4
10°	864.4	860.6	850.8	857.6	856.1
12.5°	852.3	849.3	840.2	844.7	844.0
15°	837.9	834.9	825.1	831.1	826.6
17.5°	822.0	818.3	808.4	813.0	811.5
20°	803.9	799.4	789.5	792.6	790.3
22.5°	783.5	778.9	769.1	771.4	768.4
25°	760.8	756.3	746.4	747.2	744.9
27.5°	737.3	732.8	722.2	723.0	720.7
30°	711.6	707.9	697.3	697.3	692.0
32.5°	685.9	680.6	673.1	667.8	665.5
35°	657.9	653.4	643.6	639.0	635.3
37.5°	630.0	623.9	614.1	608.8	606.5
40°	600.5	595.9	585.3	579.3	576.3
42.5°	571.0	565.7	555.1	549.0	546.0
45°	539.2	536.2	526.4	517.3	513.5
47.5°	508.2	503.7	494.6	485.5	482.5
50°	476.4	472.7	462.8	454.5	450.0
52.5°	443.2	440.9	430.3	423.5	419.0
55°	409.1	408.4	398.5	390.2	386.4
57.5°	377.4	374.3	366.8	359.2	354.7
60°	342.6	341.8	332.8	325.9	322.2
62.5°	311.6	309.3	300.2	293.4	291.2
65°	279.1	275.3	267.7	261.7	259.4
67.5°	244.3	241.2	235.2	229.9	226.9
70°	213.3	208.7	204.2	198.9	195.1
72.5°	180.7	177.7	172.4	167.9	166.4
75°	147.5	144.4	142.2	138.4	136.1
77.5°	118.0	116.5	113.4	110.4	110.4
80°	89.2	87.0	85.5	84.7	84.7
82.5°	61.3	61.3	61.3	59.7	59.0
85°	39.3	37.8	37.8	36.3	36.3
87.5°	19.7	17.4	16.6	15.9	15.9
90°	1.0	10.8	23.5	27.4	29.4
92.5°	29.4	35.3	41.1	44.1	42.1
95°	57.8	64.7	72.5	76.4	76.4
97.5°	95.0	99.9	105.8	110.7	109.7
100°	133.2	139.1	144.0	146.9	148.9
102.5°	177.3	180.2	187.1	190.0	189.1
105°	220.4	222.4	231.2	231.2	233.1
107.5°	271.4	272.3	276.3	279.2	278.2
110°	318.4	320.3	322.3	326.2	324.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.4	368.3	368.3	373.2	373.2
115°	416.3	419.3	417.3	418.3	417.3
117.5°	466.3	467.3	465.3	465.3	462.4
120°	512.3	518.2	513.3	512.3	510.4
122.5°	560.3	564.3	562.3	559.4	556.4
125°	609.3	612.3	610.3	606.4	602.5
127.5°	654.4	660.3	658.3	652.4	648.5
130°	699.4	707.3	704.3	700.4	693.6
132.5°	744.5	752.3	750.4	745.5	740.6
135°	790.6	796.4	795.5	791.5	789.6
137.5°	832.7	837.6	840.5	835.6	832.7
140°	876.8	881.7	882.6	881.7	874.8
142.5°	916.9	921.8	923.8	922.8	917.9
145°	959.0	961.0	963.9	963.0	959.0
147.5°	995.3	999.2	1002.2	1002.2	996.3
150°	1033.5	1035.5	1037.4	1037.4	1031.5
152.5°	1064.8	1067.8	1068.8	1070.7	1065.8
155°	1098.2	1098.2	1099.1	1103.1	1096.2
157.5°	1126.6	1125.6	1126.6	1130.5	1124.6
160°	1153.0	1151.1	1151.1	1156.0	1152.0
162.5°	1176.5	1173.6	1174.6	1179.5	1172.6
165°	1196.1	1193.2	1193.2	1199.1	1192.2
167.5°	1212.8	1208.9	1209.8	1215.7	1209.8
170°	1226.5	1222.6	1222.6	1229.4	1222.6
172.5°	1237.3	1233.3	1233.3	1239.2	1232.4
175°	1244.1	1240.2	1240.2	1246.1	1239.2
177.5°	1248.0	1244.1	1244.1	1250.0	1243.1
180°	1247.1	1247.1	1247.1	1247.1	1247.1

(END OF REPORT)